



FIGURE 1

Helicase C sub-domain

VASA-Dros DFLASFESEK (9) ITTSHG (3) DRLQSQREQALRDFKNGSMKVLATSVASRGIDTINIKHVINYDMPKIDDDYVHRTGRTGCG
 DRS1-yeast HRLRIINGLL (9) VGEHGH (3) STTQEQRLDSVNFKNLEVPVLICTDLASRGIDIPKIEVVINYDMPKSYEIIYHRTVGRRTARAG
 SIN1 LVLPKVFAEL (9) SMIGHN (3) EMKSSQMDTISKFRDGHVTI VATSVAEEGGLDIROCNVVMRFDLAKTVLAYIQSRGR-ARKP

Helicase C sub-domain

RRP3-yeast ERLSGLCNLEFSATLHG (5) DINQNRMGSLDFKAGKRSLVATDVAARGLDIPSWDTVNNYDIPVDSKSYIHRVGRRTARAG
 DRS1-yeast HRLRIINGLL (9) VGEHGH (5) SLTQEQRLDSVNFKNLEVPVLICTDLASRGIDIPKIEVVINYDMPKSYEIIYHRTVGRRTARAG
 VASA-Dros DFLASFESEK (9) ITTSHG (5) DRLQSQREQALRDFKNGSMKVLATSVASRGIDIPKIEVVINYDMPKIDDDYVHRTGRTGCG
 SIN1 KVFAEPPSDSFIRCSMIG (5) EMKSSQMDTISKFRDGHVTI VATSVAEEGGLDIROCNVVMRFDLAKTVLAYIQSRGR-ARKP

RNase3 sub-domain

PAC1-Scpo ERLEFLGDSFFNLFTTRIIISKFPQMDGSLSKRRKFVGN
 VASA-Dros ERLEFLGDSVLGFIHASELYQRRPQAREGDLSRMRASMVNG
 YM68-Celg QRLEFLGDAVLDMITRYLFEDSRQYSPGLDERSAILVNN
 SIN1 ERAELLGDAYLKWVSRFLFKYPQKHEGQLTRRQQMVSN

dsRBD domains

Staufen-Dros PMCLVNETAR-YNKITHQVRLTE (3) ERGPAHCKT (3) FVTLMIG-- (7) --DEEYSADGFKIKKAQHLAASKAHEET
 Staufen-Dros PLSQVHEIGI-KRNMTVHEKVL (3) EEGPAHMK (3) FITACIVG-- (7) --SIVTEGEGCKKVKRRAAEKMLVEL
 Staufen-Dros PITKIQIQQTPEKEPEPIEELIA (3) NGNETARR (3) FVMEVSAS-- (7) --GSTARGTGN KLAKRNAAQALFEI-
 SIN1 TRQTIINDI CLRKNWPMPSVRCVK (3) EGGPAHAKR (3) FITFGVR NTSDRGWTDECIGEPMPSVKAKDAAVLLLELL
 SIN1 PVRERQERCQ-QQAEGLKXKASR (3) SCNTATVEV (3) FIDGQVNG-- (11) -----VQNPQKKMAOKLAARNALAL

FIGURE 2